## INTERNATIONAL SEARCH REPORT

ernational Application No . CT/EP2004/013172

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER B23K9/28		
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)  IPC 7 B23K B25J			
Documentation searched other than minimum documentation to the extent that Juch documents are included in the fields searched			
Electronic data base consulted during the International search (name of data base and, where practical, search terms used)  EPO-Internal, PAJ, WPI Data			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the re-	levant passages	Relevant to claim No.
А	US 4 705 243 A (HARTMANN ET AL) 10 November 1987 (1987-11-10) figures 1-12		1
А	EP 0 873 826 A (COMAU S.P.A) 28 October 1998 (1998-10-28) claim 1; figures 1-3		1
A	EP 1 358 973 A (BL AUTOTEC, LTD) 5 November 2003 (2003-11-05) claim 1; figures 1,9		1
Α	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 09, 13 October 2000 (2000-10-13) & JP 2000 158376 A (B L AUTO TEC 13 June 2000 (2000-06-13) the whole document	KK),	1
Further documents are listed in the continuation of box C.  X Patent family members are listed in annex.			
'A' document defining the general state of the art which is not considered to be of particular relevance  'E' earlier document but published on or after the international filling date  'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  'O' document referring to an oral disclosure, use, exhibition or other means  'P' document published prior to the international filling date but		'T' later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  '&' document member of the same patent family	
Date of the actual completion of the international search  Date of mailing of the international search report			rch report
10 March 2005		31/03/2005	
Name and mailing address of the ISA		Authorized officer	
European Patent Office, P.B. 5818 Patentlaan 2 NL ~ 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Concannon, B	

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Information on patent family members

Patent document Publication Patent family Publication cited in search report member(s) date US 4705243 Α 10-11-1987 DE 3434899 A1 23-05-1985 AT 33359 T 15-04-1988 AU 567456 B2 19-11-1987 AU 3508584 A 07-05-1985 DD 227376 A5 18-09-1985 DE 3470294 D1 11-05-1988 WO 8501686 A1 25-04-1985 EP 0144602 A1 19-06-1985 ES 8506217 A1 01-11-1985 JP 61500160 T 30-01-1986 SU 1309907 A3 07-05-1987 EP 0873826 Α T0970349 A1 28-10-1998 IT 23-10-1998 DE 69800450 D1 01-02-2001 DE 69800450 T2 06-09-2001 ĒΡ 0873826 A2 28-10-1998 ES 2152744 T3 01-02-2001 JP 10329079 A 15-12-1998 US 6014909 A 18-01-2000 EP 1358973 Α 05-11-2003 JP 3607928 B2 05-01-2005 JP 2002224987 A 13-08-2002 EP 1358973 A1 05-11-2003 US 2004067662 A1 08-04-2004 WO 02060654 A1 08-08-2002 JP 2000158376 13-06-2000 NONE